

PROJECT DESCRIPTION

I. General

This portion of the project involves the installation of a traffic control signal with intersection street lighting at the intersection of US 40 and Turf Valley Road. US 40 is assumed to run in an east-west direction.

II. Intersection Operation

This intersection is proposed to operate in a fully actuated mode with US 40 eastbound left turn lane operating in an exclusive phase. Southbound Turf Valley Road left turns shall operate in an exclusive phase each. Eastbound and westbound US 40 shall operate concurrently.

A NEMA (8 phase) fully actuated controller housed in a base mounted cabinet with four - 4 channel track mounted loop detector amplifiers shall be installed at this location.

PROJECT DESCRIPTION

I. General

This portion of the project involves the installation of a fiber optic "No right turn" sign and loop detectors on the northern leg of the intersection of MD 943 and Beaver Dam Road. Additionally, new signal heads are to be installed for the southbound direction of Beaver Dam Road. MD 943 is assumed to run in an east-west direction.

II. Intersection Operation

This intersection currently operates in a fully actuated mode with MD 943 eastbound and westbound left turn lanes operating in an exclusive phase while northbound Beaver Dam Road left turns operate in a permissive mode. Southbound Beaver Dam Road left turns are proposed to operate in an exclusive / permissive mode.

III. Special Notes

1. The following contact persons for District #7 are as follows:

Mr. Richard Daff, Sr.
Chief, Traffic Operations
(410) 321-3514

Mr. Dave Malkowski
District Engineer
(410) 321-2800

Mr. Randall Scott
Asst. District Engineer -
Traffic
(410) 321-2800

Mr. David Ramsey
Asst. District Engineer -
Maintenance (Acting)
(410) 321-2800

Mr. Joseph McMahon
Asst. District Engineer - Utility
(410) 321-2800

2. Maintenance of traffic will be handled by the contractor utilizing the following standard plates for traffic control: 105.00, 105.01, 105.02, 105.03, 105.03, 105.101, 105.103, 105.105, 105.107, 105.109

EQUIPMENT LIST


A. Equipment to be supplied by the Administration.

ITEM NO.	QUANTITY	UNITS	SPECIFICATION SECTION	DESCRIPTION
9002	1	EA	814	12 in. 1 way 5 section (R,Y,G,YA,GA) signal head optically programmed w/ tether clamp - span mount
9003	3	EA	814	12 in. 1 way 3 section (R,Y,G) signal head w/ tether clamp - span mount
9005	1	EA	xxx	Four-channel loop detector amplifier (delayed output)
9006	1	EA		Fiber Optic sign, R3-1 (48 in. x 48 in.) symbolic "No Right Turn"
9007	1	EA	803	Sign hardware span wire bottom tether
9008	1	EA	803	Sign hardware span wire hangar
9009	1	SF	813	Sheet aluminum signs consisting of:
	1	EA	xxx	R8-8. (36 in. x 48 in.)
	1	EA	xxx	R1-2. (36 in. x 36 in. x 36 in.) YIELD - ground mount
9010	1	EA	814	12 in. 1 way 3 section w/ tether clamp - span mount (R,Y,G) signal head optically programmed

EQUIPMENT LIST (Cont.)

B. Equipment to be Furnish and/or Installed by the Contractor

ITEM NO.	QUANTITY	UNITS	SPECIFICATION SECTION	DESCRIPTION
1001	1	EA	104	Maintenance of Traffic per assignment
1003	1	EA		Mobilization for assignments out of contract area
8010	1	LF	819	Furnish and install steel span wire - 1/4 in. diameter
8011	1	EA	814	Install signal head (ANY TYPE)
8016	1	EA	815	Furnish and install microloop
8021	1	LF	815	Furnish and install saw cut for signal (loop detector)
8023	1	LF	805	Furnish and install 1 in. liquid tight flexible non-metallic conduit for detector sleeve
8030	1	LF	805	Furnish and install 4 in. schedule 80 rigid PVC conduit- trenched
8032	1	LF	805	Furnish and install 4 in. schedule 80 rigid PVC conduit- bored
8033	1	EA	811	Furnish and install electrical handhole
8040	1	LF	810	Furnish and install loop wire encased in flexible tubing (No. 14 AWG)
8041	1	LF	810	Furnish and install electrical cable - 2 conductor (aluminum shielded)
8042	1	LF	810	Furnish and install electrical cable - 2 conductor (No.14 AWG)
8044	1	LF	810	Furnish and install electrical cable - 5 conductor (No. 14 AWG)
8045	1	LF	810	Furnish and install electrical cable - 7 conductor (No. 14 AWG)
8046	1	LF	810	Furnish and install electrical cable - 2 conductor (No. 12 AWG) type "TC"
8051	1	LF	812	Furnish and install wood sign supports 4 in. x 4 in.
8053	1	SF	813	Install ground mounted sign
8054	1	SF	813	Install overhead sign
Neg.	1	EA	xxx	Re-build existing handhole.

REVISIONS		APPROVALS		 MARYLAND DOT - STATE HIGHWAY ADMINISTRATION Office of Traffic & Safety TRAFFIC ENGINEERING DESIGN DIVISION MD 943 (WARREN ROAD) AT BEAVER DAM ROAD Log Mile #03094300.59	
		ASST. TRAFFIC ENGINEERING DESIGN DIVISION			
		ASST. DISTRICT ENGINEER, TRAFFIC			
		CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION			
ADD DETECTION NORTH OF LIGHT RAIL TRACKS AND ADDITIONAL FIBER OPTIC R3-1 SIGN.		11/98		DRAWN BY: <u>BS 4/99</u>	
				CHECKED BY: <u>BS 4/99</u>	
				SCALE: <u>7 9 93</u>	
				DATE: <u>7 9 93</u>	
				F.A.P. NO. <u>000-000-000</u>	
				S.H.A. NO. <u>AW 277A53/852</u>	
				COUNTY: <u>BALTIMORE</u>	
				LOG MILE: <u>3818A</u>	
				T.I.M.S. NO. <u>3 OF 3</u>	